

PROJECT 10073 RECORD CARD

1. DATE 11 April 1963	2. LOCATION 02°N 168.37W (Pacific)	12. CONCLUSIONS <input type="checkbox"/> Was Balloon <input type="checkbox"/> Probably Balloon <input type="checkbox"/> Possibly Balloon <input type="checkbox"/> Was Aircraft <input type="checkbox"/> Probably Aircraft <input type="checkbox"/> Possibly Aircraft <input type="checkbox"/> Was Astronomical <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical
3. DATE-TIME GROUP Local _____ GMT 11/1620Z	4. TYPE OF OBSERVATION <input type="checkbox"/> Ground-Visual <input type="checkbox"/> Ground-Radar <input checked="" type="checkbox"/> Air-Visual <input type="checkbox"/> Air-Intercept Radar	
5. PHOTOS <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. SOURCE Civilian Airline Quantas	
7. LENGTH OF OBSERVATION not reported	8. NUMBER OF OBJECTS one	9. COURSE <input checked="" type="checkbox"/> Other satellite <input type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown
10. BRIEF SUMMARY OF SIGHTING CIRVIS report of object that appeared to be a satellite observed at 20 dgr elevation bearing 260 dgr magnetic from reporting a/c.	11. COMMENTS Only that object resembling satellite was reported. ECHO data not available, object assumed to be satellite. ECHO CLEAR REPORT AT 1602 AT 60° 37'. NOT VISIBLE	

DEPARTMENT OF THE AIR FORCE

STAFF MESSAGE BRANCH

UNCLASSIFIED MESSAGE

Pg 1 of 2

AF IN: 29563 (11 Apr 63) G/eld

INFO : NIN-9, XOP-1, XOPX-4, SAF ~~OS-3~~, ARMY ~~12~~, G OSD-15, JCS-35, DIA-20,
DIA-CIIC-2, NSA-7, CIA-11, CMC-8 (118)

SMB B 189

CN 62

OO RUEAHQ

DE RUHLKH 12

O 111735Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKM/PACAF HICKAM AFB HAWAII

RUHPHH/COMHAWSEAFRON PERAL HARBOR HAWAII

INFO RUEAHQ/CSAF USAF WAS DC

RUECW/CNO WASH DC

RUECW/SECNAV WASH DC

RUWGALB/CINCNORAD ENT AFB COLO

RUHPA/CINCPAC CAMP H M SMITH HAWAII

RUHAFS/CINCUSARPAC FT SHAFTER HAWAII

RUHPB/CINCPACFLT PERAL HARBOR HAWAII

RUUAZ/CONUSJAPAN FUCHU AS JAPAN

RUMAC/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAN

RUCSBR/CINCSAC OFFUTT AFB NEBR

RUHPD/COMASWFORPAC FORD ISLAND HAWAII

BT

UNCLAS HADOC-D 0683

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DEPARTMENT OF THE AIR FORCE
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INCOMING

AF IN: 29563 (11 Apr 63)

pg 2 of 2

1. CIRVIS REPORT
2. QUANTAS 531, B-707
3. APPEARED TO BE A SATELLITE
4. 20 DEG ABOVE HORIZON. POSITION OF AIRCRAFT, 02N 168.37 W
5. 11/1620Z
6. UNKNOWN
7. BEARING 260 DEG MAGNETIC FROM REPORTING AIRCRAFT
8. UNKNOWN

BT

11/1745Z APR RUHLKH

NOTE: ADV CY TO DIA, XOPX AND NIN.

SATELLITE 1960 TOTA 1 FOR OTHER LATITUDES												SATELLITE 1960 TOTA 1 FOR OTHER LATITUDES											
EQUATOR S-N			ECUATOR S-N			SOUTH-NORTH			SOUTH-NORTH			NORTH-SOUTH			NORTH-SOUTH			NORTH-SOUTH			NORTH-SOUTH		
TIME EUTT	LONG. IN-1	LAT. CORG.	TIME CORG.	LONG. (MIN)	HT. (M)	BEAR. (IN-1)	TIME CORG.	LONG. (MIN)	HT. (M)	BEAR. (IN-1)	TIME EUTT	LONG. (IN-1)	LAT. CORG.	TIME CORG.	LONG. (MIN)	HT. (M)	BEAR. (IN-1)	TIME CORG.	LONG. (IN-1)	HT. (M)	BEAR. (IN-1)		
APRIL 7, 1963																							
0 47.2	121.11	47.4	28.4	-82.67	945	90.0*	28.4	-82.71	945	90.0*	0 34.0	142.82	47.4	28.6	-82.69	939	90.0*	28.8	-82.73	949	90.0*		
2 -2.6	202.10	45.0	23.6	-60.06	934	22.3*	34.1	-105.08	945	22.3*	2 53.4	222.01	45.0	23.6	-60.09	932	22.3*	34.1	-104.72	943	22.3*		
4 18.0	231.50	40.0	19.5	-43.47	933	50.3*	38.4	-119.13	945	41.3*	4 58.8	251.20	40.0	19.4	-45.48	925	60.7*	38.3	-119.92	944	11.3*		
6 31.5	260.69	35.0	16.4	-35.81	928	54.0*	41.5	-129.49	945	126.0	6 44.2	280.40	35.0	16.3	-35.88	920	54.0	41.4	-129.52	945	125.0*		
8 26.8	269.88	30.0	13.7	-28.55	923	49.4	44.2	-136.80	945	136.6	8 39.6	304.59	30.0	13.6	-28.56	915	49.4	44.1	-136.82	946	136.6		
10 24.2	211.08	20.0	8.9	-17.28	915	43.7	49.1	-148.05	945	136.3	10 35.1	336.79	20.0	8.8	-17.29	908	43.7	44.0	-148.08	945	136.7*		
12 19.7	158.27	0.	0.	0.	903	39.9	55.0	-165.32	935	155.1	12 30.5	1.98	0.	0.	0.	895	39.9	56.0	-165.35	940	140.1		
14 15.2	122.87	-20.0	-8.8	17.29	898	43.1	-48.0	148.18	925	155.1	14 25.9	37.17	-26.0	-8.8	17.29	896	43.1	-48.1	148.17	933	136.1		
16 10.7	85.66	-37.0	-13.6	28.57	896	37.4	-53.0	138.12	921	150.0	16 21.3	66.37	-30.0	-13.6	28.57	899	37.4	-53.1	138.31	929	130.1		
18 5.9	75.87	-45.0	-16.1	35.89	899	35.0	-41.1	129.6	915	146.0	18 16.7	95.56	-35.0	-16.2	35.90	901	35.0	-41.1	129.59	927	125.0		
20 1.3	105.05	-40.0	-19.3	45.50	901	30.7*	-32.0	129.04	915	146.3	20 12.1	128.76	-40.0	-19.3	45.51	903	30.7*	-32.0	129.59	921	119.1*		
22 57.7	134.27	-45.0	-23.4	60.73	903	22.3*	-33.5	105.73	914	131.7*	22 7.5	153.75	-45.0	-23.4	60.73	908	22.3*	-33.5	105.78	919	107.1*		
24 52.7	101.84	-47.4	-28.6	52.74	908	90.0*	-28.6	82.70	908	90.0*	24 7.4	-28.6	-28.6	90.0*	914	90.0*	-28.6	82.74	916	90.0*			
APRIL 8, 1963																							
1 47.2	152.11	47.4	28.4	-82.67	945	90.0*	28.4	-82.71	945	90.0*	0 3.0	163.14	47.4	28.6	-82.69	937	90.0*	28.8	-82.74	937	90.0*		
3 41.0	72.1.83	45.0	23.6	-60.06	937	22.3*	34.1	-105.08	945	22.3*	1 58.4	212.58	45.0	23.6	-60.70	930	22.3*	34.1	-104.73	942	107.1*		
5 36.5	721.52	40.0	19.5	-43.47	931	50.3*	38.4	-119.13	945	41.3*	3 53.8	281.53	40.0	19.5	-45.49	923	60.7*	37.3	-119.52	944	125.0*		
7 31.0	721.52	35.0	16.4	-35.81	926	54.0*	41.5	-129.49	945	126.0	5 34.2	370.17	35.0	16.3	-35.88	918	54.0	41.4	-129.52	946	125.6		
9 27.2	152.84	30.0	13.7	-28.55	921	49.4	44.2	-136.80	945	136.6	7 44.6	299.92	30.0	13.6	-28.56	913	49.4	44.0	-136.84	944	136.4		
11 25.2	130.61	20.0	8.9	-17.28	915	41.7	47.1	-145.16	945	136.3	9 32.0	329.11	20.0	8.8	-17.29	905	41.7	44.0	-145.33	941	136.1		
13 20.7	120.61	0.	0.	0.	902	39.9	58.0	-165.32	736	150.1	11 35.5	358.31	0.	0.	0.	897	39.9	57.9	-165.35	941	136.1*		
15 15.5	80.99	-20.0	-8.8	17.29	847	43.7	-48.0	148.18	928	135.3	13 30.9	27.50	-26.0	-8.8	17.29	896	43.7	-48.1	148.16	939	130.1*		
17 10.9	60.19	-30.0	-13.6	28.57	898	39.4	-49.6	136.92	923	130.5	15 26.3	56.59	-30.0	-13.6	28.58	899	39.4	-49.6	130.40	931	130.0*		
19 5.9	55.20	-35.0	-16.1	35.89	898	36.0	-41.1	129.60	921	125.0*	17 24.7	85.89	-35.0	-16.2	35.90	901	34.0*	-41.1	129.59	929	126.0		
21 2.9	45.50	-40.0	-19.3	45.51	901	30.7*	-32.0	129.03	918	131.7*	19 11.1	115.08	-40.0	-19.3	45.51	904	30.7*	-32.0	119.59	920	119.5*		
23 3.7	125.47	-45.0	-23.4	60.73	904	22.3*	-33.5	105.76	918	131.7*	21 12.5	145.27	-45.0	-23.4	60.73	909	22.3*	-33.5	105.78	921	107.1*		
25 57.7	153.47	-45.0	-28.6	52.74	907	90.0*	-28.6	82.70	907	90.0*	23 7.4	-28.6	-28.6	90.0*	914	90.0*	-28.6	82.74	916	90.0*			
APRIL 9, 1963																							
0 52.6	167.77	47.4	28.4	-82.68	947	90.0*	28.4	-82.72	947	90.0*	1 3.8	202.64	47.4	28.8	-82.70	935	90.0*	28.8	-82.74	935	90.0*		
2 48.0	217.46	45.0	23.6	-60.07	938	22.3*	38.1	-105.73	946</														

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NOISELESS SIGNAL ALGORITHMS FOR EARTH SATELLITE 1980 (002-1)

1132 112 8/22/04

155.10 DEG. WEST

TIME, 1970, INITIAL, 001 DAY = 16.77 MIN.

ARGUMENT OF PERIGEE 27.47 DEG.

SAFETY OF LIFE AT SEA. 1948 REG. FOR 1949.

15 JAN 1998 10:00 AM

For $\{u_i\} \in \mathcal{U}$, $\forall i \in \{1, 2, \dots, n\}$

RESULTS OF VARIOUS STUDIES

PHOTO BY JEFFREY L. BROWN FOR THE NEW YORK TIMES

AMERICAN AIRLINES 50.00 U.S.
AMERICAN AIRLINES 50.00 U.S.

RAIL OR CARGO - \$1.5000 DOLL. PER DAY
100% OF CARGO - \$1.5000 DOLL. PER DAY

EXERCISES FOR PRACTICE.